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CORRECTED
NOTICE OF ALLOWANCE AND FEE(S) DUE

35690 7590 12/23/2005

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
HUYNH, BA	
ART UNIT	**PAPER NUMBER**
2179	

DATE MAILED: 12/23/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,014	01/15/2002	Michael L. Santori	5150-56000	5707

TITLE OF INVENTION: GRAPHICAL PROGRAM SYSTEM HAVING A SINGLE GRAPHICAL USER INTERFACE SHARED BY A PLURALITY OF GRAPHICAL PROGRAMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1400	$300	$1700	03/23/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 07/05) Approved for use through 04/30/2007.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

or Fax **(571) 273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

35690 7590 12/23/2005

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,014	01/15/2002	Michael L. Santori	5150-56000	5707

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nonprovisional	NO	$1400	$300	$1700	03/23/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
HUYNH, BA	2179	715-771000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____ 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.
NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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EXAMINER	
HUYNH, BA	
ART UNIT	**PAPER NUMBER**
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DATE MAILED: 12/23/2005

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 596 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 596 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

PTOL-85 (Rev. 07/05) Approved for use through 04/30/2007.

4/14
IFW

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NOTICE OF ALLOWANCE AND FEE(S) DUE

35690 7590 10/25/2005

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 07/05) Approved for use through 04/30/2007.

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35690 7590 10/25/2005

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EXAMINER	
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(application filed on or after May 29, 2000)

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PTOL-85 (Rev. 07/05) Approved for use through 04/30/2007.

Notice of Allowability	Application No. 10/047,014	Applicant(s) SANTORI ET AL.	
	Examiner Ba Huynh	Art Unit 2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the telephone interview on 10/12/05*.

2. ☒ The allowed claim(s) is/are *70-140*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *10/12/05*.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

BA HUYNH
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Mark S. Williams on 10/12/05.

The application has been amended as follows:

Please amend the claims as indicated in the attachment.

The following is an examiner's statement of reasons for allowance:

Each of the independent claims 70, 90, 101, 102, 108, 110, 112, 114, 125-129, 135, 137, when considered as a whole, is allowable over the prior art of record. Specifically, prior art of record fail to clearly teach executing a first and a second graphical data flow program concurrently and displaying the output of the first and the second graphical data flow program in a single graphical user interface panel, wherein the second program was created in a different graphical programming environment or language, and is not a sub-program or sub-VI (see paper 7/27/05 and 7/28/05).

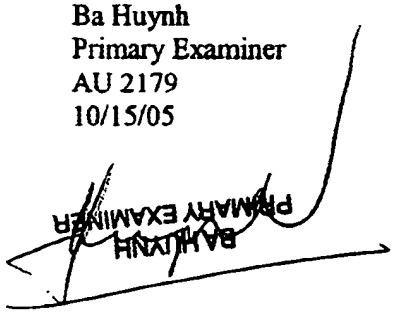
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ba Huynh whose telephone number is (571) 272-4138. The examiner can normally be reached on Mon - Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ba Huynh
Primary Examiner
AU 2179
10/15/05



Interview Summary	Application No.	Applicant(s)	
	10/047,014	SANTORI ET AL.	
	Examiner	Art Unit	
	Ba Huynh	2179	

All participants (applicant, applicant's representative, PTO personnel):

(1) *Ba Huynh*. (3)_____.

(2) *Mark S. Williams*. (4)_____.

Date of Interview: *12 October 2005*.

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
If Yes, brief description: _____.

Claim(s) discussed: *1*.

Identification of prior art discussed: *Washington et al*.

Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *See Continuation Sheet*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

BA HUYNH
PRIMARY EXAMINER

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: In claim 1, the negative limitation "wherein said executing the first graphical data flow program and said executing the second data flow program are performed without invocation of the first and second graphical data flow program by a third graphical data flow program" lacks of support from the specification. The applicant proposes an amendment to indicate that the second graphical data flow program is created using a second graphical development software program different than the first graphical program development software application. The amendment is to distinguish from Washington and Kodosky's teaching of executing graphical program having sub-VI.

IN THE CLAIMS:

Please amend the claims as indicated below. The following listing of claims will replace all prior versions, and listings, of claims in the application.

1 – 69. (Cancelled)

70. (Previously Presented) A method for executing graphical data flow programs, the method comprising:

executing a first graphical data flow program, wherein said executing the first graphical data flow program produces first program output, wherein the first graphical data flow program is created using a first graphical program development software application;

executing a second graphical data flow program concurrently with the first graphical data flow program, wherein said executing the second graphical data flow program produces second program output, wherein the second graphical data flow program is created using a second graphical program development software application, wherein the second graphical program development software application is different than the first graphical program development software application; and

displaying the first program output and the second program output in a single graphical user interface panel on a display.

71. (Previously Presented) The method of claim 70, further comprising:

receiving user input to the single graphical user interface panel during said executing; and

providing the user input to at least one of the first graphical data flow program or the second graphical data flow program.

72. (Previously Presented) The method of claim 70, further comprising:

the at least one of the first graphical data flow program or the second graphical data flow program executing to produce a resulting output; and

displaying the resulting output on the single graphical user interface panel.

73. (Previously Presented) The method of claim 70, further comprising:

receiving user input to the single graphical user panel interface during said executing;

providing the user input to at least one of the first graphical data flow program or the second graphical data flow program in real time as the user input is received;

the at least one of the first graphical data flow program or the second graphical data flow program executing in real time using the user input to produce a resulting output; and

displaying the resulting output on the single graphical user interface panel as the resulting output is produced.

74. (Previously Presented) The method of claim 70,

wherein the first graphical data flow program executes on a first computer system;

wherein the second graphical data flow program executes on a second computer system.

75. (Previously Presented) The method of claim 74,

wherein the display that displays the single graphical user interface panel is comprised on one of the first computer system or the second computer system;

wherein the first computer system is coupled to the second computer system by a network.

76. (Previously Presented) The method of claim 74,

wherein the display that displays the single graphical user interface panel is comprised on a third computer system;

wherein the third computer system is coupled to the first computer system and the second computer system by a network.

77. (Previously Presented) The method of claim 70, further comprising:

displaying the first graphical data flow program on the display; and

displaying the second graphical data flow program on the display.

78. (Previously Presented) The method of claim 70,

wherein the first graphical data flow program comprises a first plurality of interconnected nodes that visually indicate functionality of the first graphical data flow program;

wherein the second graphical data flow program comprises a second plurality of interconnected nodes that visually indicate functionality of the second graphical data flow program.

79. (Previously Presented) The method of claim 70,

wherein the first graphical data flow program comprises a data flow block diagram.

80. (Previously Presented) The method of claim 70,

wherein at least one of the first and second graphical data flow programs executes on a reconfigurable instrument.

81. (Previously Presented) The method of claim 70,

wherein the first and second graphical data flow programs perform a measurement function;

wherein the single graphical user panel interface displays measurement data output from at least one of the first and second graphical data flow programs.

82. (Previously Presented) The method of claim 70,

wherein the first graphical data flow program performs a measurement function;

wherein the second graphical data flow program performs a simulation function.

wherein the single graphical user interface panel displays measurement data output from the first graphical data flow program and displays simulation data output from the second graphical data flow program.

83. (Previously Presented) The method of claim 70,

wherein the first graphical data flow program is developed according to a first graphical programming language;

wherein the second graphical data flow program is developed according to a second graphical programming language, wherein the second graphical programming language is different than the first graphical programming language.

84. (Previously Presented) The method of claim 83,

wherein the first graphical programming language is the G language.

85. (Previously Presented) The method of claim 70, further comprising:

creating the single graphical user interface panel in the first graphical program development software application.

86. (Previously Presented) The method of claim 70,

wherein the single graphical user interface panel operates as a front panel for the first graphical program and the second graphical program.

87. (Previously Presented) The method of claim 70, further comprising:

creating a first portion of the single graphical user interface panel in the first graphical program development software application; and

creating a second portion of the single graphical user interface panel in the second graphical program development software application; and

combining the first portion of the single graphical user interface panel and the second portion of the single graphical user interface panel to create the single graphical user interface panel.

88. (Previously Presented) The method of claim 70,

wherein the single graphical user interface panel operates as a front panel for the first graphical program and the second graphical program;

wherein the front panel is accessible by the user during said executing the first and second graphical data flow programs;

the method further comprising:

receiving user input to the single graphical user interface panel during said executing the first and second graphical data flow programs, wherein the user input is intended for at least one of the first and second graphical data flow programs;

the at least one of the first and second graphical data flow programs executing using the user input when the user input is received to produce a resulting output; and

displaying the resulting output on the single graphical user interface panel.

89.. (Previously Presented) The method of claim 70,

wherein the first graphical data flow program is one of:

a LabVIEW program;

a Simulink program; or

a VEE program.

90. (Previously Presented) A computer readable memory medium comprising program instructions for executing graphical data flow programs, wherein the program instructions are executable to implement:

executing a first graphical program, wherein said executing the first graphical program produces first program output, wherein the first graphical program is created using first graphical program development software;

executing a second graphical program concurrently with the first graphical program, wherein said executing the second graphical program produces second program output, wherein the second graphical program is created using second graphical program development software, wherein the second graphical program development software is different than the first graphical program development software; and

displaying the first program output and the second program output in a front panel on a display.

91. (Previously Presented) The computer readable memory medium of claim 90, wherein the program instructions are further executable to implement:

receiving user input to the front panel during said executing; and

providing the user input to at least one of the first graphical program or the second graphical program.

92. (Previously Presented) The computer readable memory medium of claim 90,

wherein the first graphical program executes on a first computer system;

wherein the second graphical program executes on a second computer system;

wherein the first computer system is coupled to the second computer system by a network;

wherein the display that displays the front panel is comprised on one of the first computer system or the second computer system.

93. (Previously Presented) The computer readable memory medium of claim 90,

wherein the first graphical program executes on a first computer system;

wherein the second graphical program executes on a second computer system;

wherein the first computer system is coupled to the second computer system by a network;

wherein the display that displays the front panel is comprised on a third computer system;

wherein the third computer system is coupled to the first computer system and the second computer system by the network.

94. (Previously Presented) The computer readable memory medium of claim 90,

wherein the first graphical program comprises a first plurality of interconnected nodes that visually indicate functionality of the first graphical program;

wherein the second graphical data flow program comprises a second plurality of interconnected nodes that visually indicate functionality of the second graphical program.

95. (Previously Presented) The computer readable memory medium of claim 90,

wherein the first and second graphical programs each perform a measurement function;

wherein the front panel displays measurement data output from at least one of the first and second graphical programs.

96. (Previously Presented) The computer readable memory medium of claim 90,

wherein the first graphical program performs a measurement function;

wherein the second graphical program performs a simulation function.

wherein the front panel displays measurement data output from the first graphical program and displays simulation data output from the second graphical program.

97. (Previously Presented) The computer readable memory medium of claim 90,

wherein the first graphical program is developed according to a first graphical programming language;

wherein the second graphical program is developed according to a second graphical programming language, wherein the second graphical programming language is different than the first graphical programming language.

98. (Previously Presented) The computer readable memory medium of claim 90, wherein the program instructions are further executable to implement:

creating a first portion of the front panel in the first graphical program development software; and

creating a second portion of the front panel in the second graphical program development software; and

combining the first portion of the front panel and the second portion of the front panel to create the front panel.

99. (Previously Presented) The computer readable memory medium of claim 90, wherein the front panel is created in one of the first graphical program development software or the second graphical program development software.

100. (Previously Presented) The computer readable memory medium of claim 90, wherein the front panel comprises a single window.

101. (Previously Presented) A method for executing graphical data flow programs, the method comprising:

executing a first graphical data flow program, wherein said executing the first graphical data flow program produces first program output, wherein the first graphical data flow program is created in a first graphical programming language;

executing a second graphical data flow program concurrently with the first graphical data flow program, wherein said executing the second graphical data flow program produces second program output, wherein the second graphical data flow program is created in a second graphical programming language, wherein the second graphical programming language is different than the first graphical programming language; and

displaying the first program output and the second program output in a front panel on a display.

102. (Previously Presented) A method for executing graphical data flow programs, the method comprising:

creating a first graphical data flow program using a first graphical program development software application; and

creating a second graphical data flow program using a second graphical program development software application, wherein the second graphical program development software application is different than the first graphical program development software application;

executing the first graphical data flow program, wherein said executing the first graphical data flow program produces first program output;

executing the second graphical data flow program concurrently with the first graphical data flow program, wherein said executing the second graphical data flow program produces second program output; and

displaying the first program output and the second program output in a single graphical user interface on a display, wherein the single graphical user interface is created in one of the first graphical program development software application or the second graphical program development software application.

103. (Previously Presented) The method of claim 102,

wherein the single graphical user interface operates as a front panel for the first graphical program and the second graphical program.

104. (Previously Presented) The method of claim 102, further comprising:

creating the single graphical user interface in at least one of the first graphical program development software application and the second graphical program development software application.

105. (Previously Presented) The method of claim 104,

wherein the single graphical user interface comprises a plurality of windows.

106. (Previously Presented) The method of claim 102, further comprising:

receiving user input to the single graphical user interface during said executing; and

providing the user input to at least one of the first graphical data flow program or the second graphical data flow program.

107. (Previously Presented) The method of claim 102, further comprising:

receiving user input to the single graphical user interface during said executing;

providing the user input to at least one of the first graphical data flow program or the second graphical data flow program in real time as the user input is received;

the at least one of the first graphical data flow program or the second graphical data flow program executing in real time using the user input to produce a resulting output; and

displaying the resulting output on the single graphical user interface when the resulting output is produced.

108. (Previously Presented) A method for providing a single graphical user interface shared by a plurality of programs, wherein at least one of the plurality of programs is a graphical data flow program, the method comprising:

executing a plurality of programs concurrently, wherein each of the programs is operable to produce program output, wherein at least one of the programs is a graphical data flow program created using graphical program development software, wherein at least another one of the programs was created using second program development software;

receiving the program output of each program; and

displaying the program output of each program in a single graphical user interface panel.

109. (Previously Presented) The method of claim 108, further comprising:

receiving program input to the single graphical user interface panel; and

providing the program input to at least one of the plurality of programs.

110. (Previously Presented) A computer readable memory medium comprising program instructions for providing a front panel shared by a plurality of programs, wherein at least one of the plurality of programs is a graphical data flow program, wherein the program instructions are executable to implement:

executing a plurality of programs concurrently, wherein each of the programs is operable to produce program output, wherein at least one of the programs is a graphical data flow program created using graphical program development software, wherein at

least another one of the programs was created using second program development software;

receiving the program output of each program; and

displaying the program output of each program in the front panel.

111. (Previously Presented) The computer readable memory medium of claim 110, wherein the program instructions are further executable to implement:

receiving program input to the front panel; and

providing the program input to at least one of the plurality of programs.

112. (Previously Presented) A method for providing a single graphical user interface panel shared by a plurality of graphical data flow programs, the method comprising:

executing a plurality of graphical data flow programs concurrently, wherein each of the graphical data flow programs is operable to produce program output, wherein each of the plurality of graphical data flow programs was created using different graphical program development software;

receiving the program output of each graphical data flow program; and

displaying the program output of each graphical data flow program in a single graphical user interface panel.

113. (Previously Presented) The method of claim 112, further comprising:

receiving program input to the single graphical user interface panel; and

providing the program input to at least one of the plurality of graphical data flow programs.

114. (Previously Presented) A computer readable memory medium, the memory medium comprising program instructions executable to:

receive first program output of a first graphical data flow program, wherein the first graphical data flow program is created using first graphical program development software;

receive second program output of a second graphical data flow program executing concurrently with the first graphical data flow program, wherein the second graphical data flow program is created using second graphical program development software;

display the first program output and the second program output in a front panel on a display.

115. (Previously Presented) The memory medium of claim 114, further comprising program instructions executable to:

receive program input to the front panel; and

provide the program input to at least one of the first graphical data flow program or the second graphical data flow program.

116. (Previously Presented) The memory medium of claim 114,

wherein the first graphical data flow program executes on a first computer system;

wherein the second graphical data flow program executes on a second computer system.

117. (Previously Presented) The memory medium of claim 116,

wherein the display that displays the front panel is comprised on one of the first computer system or the second computer system;

wherein the first computer system is coupled to the second computer system by a network.

118. (Previously Presented) The memory medium of claim 116,

wherein the display that displays the front panel is comprised on a third computer system;

wherein the third computer system is coupled to the first computer system and the second computer system by a network.

119. (Previously Presented) The memory medium of claim 114,

wherein the first graphical data flow program comprises a first plurality of interconnected nodes that visually indicate functionality of the first graphical data flow program;

wherein the second graphical data flow program comprises a second plurality of interconnected nodes that visually indicate functionality of the second graphical data flow program.

120. (Previously Presented) The memory medium of claim 114,

wherein the first graphical data flow program comprises a data flow block diagram.

121. (Previously Presented) The memory medium of claim 114,

wherein at least one of the first and second graphical data flow programs executes on a reconfigurable instrument.

122. (Previously Presented) The memory medium of claim 114,

wherein the first and second graphical data flow programs perform a measurement function;

wherein the front panel displays measurement data output from at least one of the first and second graphical data flow programs.

123. (Previously Presented) The memory medium of claim 114,

wherein the first graphical data flow program is developed in a first graphical programming language;

wherein the second graphical data flow program is developed in a second different graphical programming language.

124. (Previously Presented) The memory medium of claim 114,

wherein the first graphical data flow program is one of:

a LabVIEW program;

a Simulink program; or

a VEE program.

125. (Previously Presented) A system for executing graphical data flow programs, the system comprising:

a first computer system;

a second computer system;

a third computer system coupled to first and second computer systems;

a display device coupled to the third computer system;

wherein the first computer system executes a first graphical data flow program, wherein the first graphical data flow program is created using first graphical program development software, wherein said executing the first graphical data flow program produces first program output;

wherein the second computer system executes a second graphical data flow program concurrently with the first graphical data flow program, wherein the second graphical data flow program is created using second graphical program development software, wherein said executing the second graphical data flow program produces second program output;

wherein the third computer system displays the first program output and the second program output in a single graphical user interface on the display device, wherein the single graphical user interface is created using one of the first graphical program development software or the second graphical program development software.

126. (Previously Presented) A system for executing graphical data flow programs, the system comprising:

a first computer system;

a second computer system coupled to first computer system;

a display device coupled to the first computer system;

wherein the first computer system executes a first graphical data flow program, wherein the first graphical data flow program is created using first graphical program

development software, wherein said executing the first graphical data flow program produces first program output;

wherein the second computer system executes a second graphical data flow program concurrently with the first graphical data flow program, wherein the second graphical data flow program is created using second graphical program development software, wherein said executing the second graphical data flow program produces second program output;

wherein the first computer system displays the first program output and the second program output in a single graphical user interface panel on the display device.

127. (Previously Presented) A system for executing graphical data flow programs, the system comprising:

a computer system;

a display device coupled to the computer system;

wherein the computer system executes a first graphical data flow program, wherein the first graphical data flow program is created using first graphical program development software, wherein said executing the first graphical data flow program produces first program output;

wherein the computer system executes a second graphical data flow program concurrently with the first graphical data flow program, wherein the second graphical data flow program is created using second graphical program development software, wherein said executing the second graphical data flow program produces second program output;

wherein the computer system displays the first program output and the second program output in a front panel on the display device.

128. (Previously Presented) A system for executing graphical data flow programs, the system comprising:

a computer system including a processor;

a reconfigurable instrument coupled to computer system;

a display device coupled to the computer system;

wherein the processor of the computer system executes a first graphical data flow program, wherein the first graphical data flow program is created using first graphical program development software, wherein said executing the first graphical data flow program produces first program output;

wherein the reconfigurable instrument executes a second graphical data flow program concurrently with the first graphical data flow program, wherein the second graphical data flow program is created using second graphical program development software, wherein said executing the second graphical data flow program produces second program output;

wherein the computer system displays the first program output and the second program output in a front panel on the display device.

129. (Currently Amended) A method for performing a software simulation, the method comprising:

executing a simulation program, wherein the simulation program comprises a first graphical program created using first graphical program development software, and wherein said executing the first graphical program produces first program output;

executing a measurement program concurrently with the simulation program, wherein the measurement program comprises a second graphical program created using second graphical program development software, and wherein said executing the second graphical program produces second program output; [[and]]

displaying a single graphical user interface panel comprising a first plurality of graphical user interface elements for the simulation program and a second plurality of graphical user interface elements for the measurement program; and

displaying the first program output and the second program output in the single graphical user interface panel on a display.

130. (Previously Presented) The method of claim 129,

wherein the first plurality of graphical user interface elements includes one or more GUI controls for providing input to the simulation program.

131. (Previously Presented) The method of claim 129,

wherein the first plurality of graphical user interface elements includes one or more GUI indicators for displaying output of the simulation program.

132. (Previously Presented) The method of claim 129,

wherein the second plurality of graphical user interface elements includes one or more GUI controls for providing input to the measurement program.

133. (Previously Presented) The method of claim 129,

wherein the second plurality of graphical user interface elements includes one or more GUI indicators for displaying output of the measurement program.

134. (Previously Presented) The method of claim 129,

wherein the first graphical program is created using the Simulink graphical program development environment; and

wherein the second graphical program is created using the LabVIEW graphical program development environment.

135. (Currently Amended) A method for simulating operation of a product, the method comprising:

executing a simulation program which simulates operation of the product, wherein the simulation program comprises a first graphical program created using first graphical program development software, and wherein said executing the first graphical program produces first program output;

executing a measurement program concurrently with the simulation program, wherein the measurement program measures characteristics of the operation of the product, wherein the measurement program comprises a second graphical program created using second graphical program development software, and wherein said executing the second graphical program produces second program output; [[and]]

displaying a single graphical user interface comprising a first plurality of graphical user interface elements for the simulation program and a second plurality of

graphical user interface elements for the measurement program, wherein the single graphical user interface was created using one of the first graphical program development software or the second graphical program development software; and

displaying the first program output and the second program output in the single graphical user interface on a display.

136. (Previously Presented) The method of claim 135,

wherein the single graphical user interface comprises a front panel that can be interactively used to assign input values to and display resulting output values from at least one of the simulation program and the measurement program.

137. (Currently Amended) A method for simulating operation of a product, the method comprising:

executing a first graphical program which simulates operation of the product, wherein the first graphical program comprises a plurality of interconnected nodes which visually indicate functionality of the first graphical program, wherein the first graphical program was created using a first graphical programming language, and wherein said executing the first graphical program produces first program output;

executing a second graphical program concurrently with the first graphical program, wherein the second graphical program measures characteristics of the operation of the product, wherein the second graphical program comprises a plurality of interconnected nodes which visually indicate functionality of the second graphical program, wherein the second graphical program was created using a second graphical programming language, and wherein said executing the second graphical program produces second program output; and

displaying a single graphical user interface panel comprising a first one or more graphical user interface elements for the first graphical program and a second one or more graphical user interface elements for the second graphical program; and

displaying the first program output and the second program output in the single graphical user interface panel on a display.

138. (Previously Presented) The method of claim 137,

wherein the single graphical user interface panel comprises a front panel that can be interactively used to assign input values to and display resulting output values from at least one of the first graphical program and the second graphical program.

139. (Previously Presented) The method of claim 137, wherein the first graphical program is a data flow program.

140. (Previously Presented) The method of claim 137, wherein the second graphical program is a data flow program.